Amirhossein Kazemzadeh Haghighi



Birthdate: 21 Jun 1998



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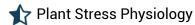


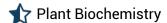
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RESEARCH INTERESTS

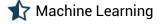






🏚 Plant Biotechnology

か Plant Molecular Biology



LANGUAGES

English

Advanced Level

TOEFL IBT

Feb 3rd, 2024

•Overall: 108

•Reading: 28

•Listening: 26

•Speaking: 27

•Writing: 27

Persian (Farsi) Native

EDUCATION

Master of Science (M.Sc.) in Plant Physiology

University of Tehran, Tehran, Iran

Sep 2020 - Sep 2022 GPA: 18.94 out of 20

Thesis: Effects of Samarium Nitrate and Cerium Nitrate on the Antioxidative Systems and Growth Parameters in Two Cultivars of Wheat (*Triticum aestivum* L.)

(score: 19.80 out of 20)

Supervisor:

Dr. Maryam Rezayian (Assistant Professor at Department of Plant Sciences, College of Science, University of Tehran (UT), Tehran, Iran)

Dr. Vahid Niknam (Professor at Department of Plant Sciences, College of Science, University of Tehran (UT), Tehran, Iran),

Dr. Mohammad Reza Ganjali (Professor of Analytical Chemistry, Head of the Centre of Excellence in Electrochemistry, and Dean of the College of Science at the University of Tehran (UT), Tehran, Iran),

Advisor

Masoud Mirmasoumi (Lecturer at Department of Plant Sciences, College of Sci-ence, University of Tehran (UT), Tehran, Iran).

Bachelor of Science (B.Sc.) in Plant Biology

University of Tehran, Tehran, Iran

Sep 2016 - Sep 2020 GPA: 16.17 out of 20

Pre-University Diploma in Experimental Sciences

Dr. Danesh Pre-University Center, Tehran, Iran

Sep 2015 - Jun 2016 GPA: 18.66 out of 20

High School Diploma in Experimental Sciences

Dr. Danesh High school, Tehran, Iran

Sep 2012 - Jul 2015 GPA: 19.59 out of 20

PUBLICATIONS

Research Article

Cerium and samarium blocked antioxidant enzymes in wheat plants

Amirhossein Kazemzadeh Haghighi; Maryam Rezayian; Mohammad Reza Ganjali; Masoud Mirmasoumi

Cerium and samarium blocked antioxidant enzymes in wheat plants. Scientific Reports 13, 8252 (2023).

DOI: https://doi.org/10.1038/s41598-023-35561-2

Link: https://www.nature.com/articles/s41598-023-35561-2

Research Article

Evaluation of the growth regulators, sugars and amino acid tryptophan effect on the rate of tryptophan decarboxylase enzyme on Vinca major L. in tissue culture, cell suspension culture and field culture conditions

Ali Kazemzadeh Haghighi; Fariba Khosravinejad; Amirhossein Kazemzadeh Haghighi

DOI: 10.30495/ZISTI.2023.1976340.1150

Link: https://zisti.varamin.iau.ir/article_700984.html

TECHNICAL SKILLS

SPSS

XLSTAT

⇒ PCA

CIMMiner

⇒ HCA

Mendeley

Python

Microsoft Office Package

Proficient

SOFT SKILLS

Time Management

Teamwork

Problem Solving

Attention to details

Resilience

Interpersonal skills

Listening skills

Enquiring mind

Tireless

Fast learner

WORK EXPERIENCE

Research Assistant in Plant Physiology and Biochemistry Research Laboratory

Department of Plant Sciences, College of Science, University of Tehran (UT)

Sep 2024– Ongoing

Tasks:

- Catalase (CAT) Analysis.
- Polyphenol Oxidase (PPO) Analysis.
- Peroxidase (PR) Analysis.
- Superoxide Dismutase (SOD) Analysis.
- Anthocyanin Analysis.
- Phenol Analysis.
- Flavonoid Analysis.

• Malondialdehyde (MDA) Analysis.

Tehran, Iran

- Hydrogen Peroxide Analysis.
- Proline Analysis.
- Polyacrylamide Gel Electrophoresis (PAGE).
- SDS-PAGE.
- Data Analyzing using SPSS, CIMminer, and XLSTAT.

Research Assistant and Growth Assistant in Plant Tissue Culture

Department of Plant Sciences, College of Science, University of Tehran (UT)

Dec 2023 - June 2024 Tehran, Iran

Tasks:

- Philodendron Birkin.
- Philodendron White Princess.
- Philodendron White Night.
- Philodendron White Wizard.
- Philodendron Pink Princess.
- Alocasia.

- Dracaena.
- Ficus.
- Root Induction Medium Procedure (RIM).
- Callus Induction Medium Procedure (CIM).
- Shoot Induction Medium Procedure (SIM).

Research Assistant in Arzesh Institute of Biology and Chemistry

Arzesh Institute of Biology and Chemistry

April 2023 - May 2024 Tehran, Iran

Task:

· Gathering Thorough Information about the Effects of REE Fertilizers on Plants.

Research Assistant in Plant Physiology and Biochemistry Research Laboratory

Department of Plant Sciences, College of Science, University of Tehran (UT)

Jan 2022 - Jul 2022 Tehran, Iran

Tasks:

- Plant Micropropagation (Caladium, Anthurium).
- Root Induction Medium Procedure (RIM)
- Callus Induction Medium Procedure (CIM)
- Shoot Induction Medium Procedure (SIM)

Teaching Assistant in Plant Biology

Department of Plant Sciences, College of Science, University of Tehran (UT)

Jan 2022 - Jul 2022 Tehran, Iran

Tasks:

- PAGE
- SDS-PAGE
- Standard Curve Context
- Spectrophotometer Methods (Single Beam and Double Beam)

WORK EXPERIENCE

Research Assistant in Plant Physiology and Biochemistry Research Laboratory

Department of Plant Sciences, College of Science, University of Tehran (UT)

Sep 2021 - Aug 2022

Tehran, Iran

Tasks:

- Catalase (CAT) Analysis.
- Polyphenol Oxidase (PPO) Analysis.
- Peroxidase (PR) Analysis.
- Superoxide Dismutase (SOD) Analysis.
- Anthocyanin Analysis.
- Phenol Analysis.
- Flavonoid Analysis.

- Malondialdehyde (MDA) Analysis.
- Hydrogen Peroxide Analysis.
- Proline Analysis.
- Polyacrylamide Gel Electrophoresis (PAGE).
- SDS-PAGE.
- Data Analyzing using SPSS, CIMminer, and XLSTAT.

Scientific Translator (English to Persian)

University of Tehran (UT)

Sep 2019 - Sep 2020

Tehran, Iran

Laboratory Skills

Molecular

- PAGE
- SDS-PAGE
- PCR
- Gene Transfer
- Hairy-Root Induction
- Plant Biotechnology
- Micropropagation & Tissue Culture

Devices

- Centrifuge
- PCR
- Spectrophotometry Device
- Microscopy

(TEM, SEM, Confocal, Compound, Stereo)

- Incubator
- Laminar
- Sterilizer Device
- pH Meter

Biochemistry

- Catalase (CAT) Analysis.
- Polyphenol Oxidase (PPO) Analysis.
- Peroxidase (PR) Analysis.
- Superoxide Dismutase (SOD) Analysis.
- Anthocyanin Analysis.
- Phenol Analysis.
- Flavonoid Analysis.
- Malondialdehyde (MDA) Analysis.
- Hydrogen Peroxide Analysis.
- Proline Analysis.
- Soluble Sugars
- Chlorophyll Content

AWARDS

- Ranked 1st among M.Sc. students of Plant Physiology at University of Tehran (UT).
- Ranked 4th among B.Sc. students of Plant Biology at University of Tehran (UT).
- Ranked 3rd in the Iran's Nation Wide Entrance Exam for Master's.

CERTIFICATIONS

Workshop of Introduction to Molecular Preliminary Methods

☐ Royan Institute

18 May- 19 May, 2017 (48h)

REFERENCE

Dr. Maryam Rezayian

 $Assistant\ Professor-College\ of\ Science-School\ of\ Biology-University\ of\ Tehran$

maryamrezayian@ut.ac.ir

Dr. Masoomeh Jannesar

Assistant Professor-College of Science-School of Biology-University of Tehran

jannesar@ut.ac.ir

Mr. Masoud Mirmasoumi

Lecturer-College of Science-School of Biology-University of Tehran

mirmasoumi@ut.ac.ir

Dr. Hamid Reza Sadeghipour

Associate Professor-Department of Biology-Faculty of Science-Golestan University

h.r.sadeghipour@gu.ac.ir